Amendment dated November 8, 2007 Reply to Office Action of October 18, 2007

## AMENDMENTS TO THE CLAIMS

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[.-148. (Canceled)

149. (Previously presented) A method comprising:

preparing a randomly primed PCR-derived reduced complexity genome (RCG) using at least one polymerase chain reaction (PCR) primer, wherein the RCG contains less than 20% of genomic material present in a whole genome,

contacting SNP-ASOs immobilized on a surface with the RCG under hybridization conditions, wherein polymorphic loci corresponding to the SNP-ASOs are present with a frequency of at least 50% in a RCG made using the at least one PCR primer and

determining the presence or absence of a SNP allele in the RCG by hybridization of the RCG with a SNP-ASO to identify a genotype.

- 150. (Previously presented) The method of claim 149, wherein the RCG contains less than 5% of genomic material present in a whole genome.
- 151. (Previously presented) The method of claim 149, wherein the RCG contains less than 1% of genomic material present in a whole genome.
- 152. (Previously presented) The method of claim 149, wherein the RCG contains less than 0.05% of genomic material present in a whole genome.
- 153. (Previously presented) The method of any one of claims 149-150, wherein the at least one PCR primer is a primer for DOP-PCR.
- 154. (Previously presented) The method of any one of claims 149-150, wherein the at least one PCR primer is a primer for adapter-PCR.

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- 155. (Previously presented) The method of claim 149, wherein the SNP-ASOs are composed of between 10 and 50 nucleotide residues.
- 156. (Previously presented) The method of claim 149, wherein the SNP-ASOs are composed of between 10 and 25 nucleotide residues.

## 157. (Previously presented) A method comprising:

preparing a randomly primed PCR-derived reduced complexity genome (RCG) from a genome of a tumor cell using at least one polymerase chain reaction (PCR) primer, wherein the RCG contains less than 20% of genomic material present in a whole genome,

contacting SNP-ASOs immobilized on a surface with the RCG under hybridization conditions, wherein polymorphic loci associated with SNPs corresponding to the SNP-ASOs are present with a frequency of at least 50% in a RCG made using the at least one PCR primer, and

determining the presence or absence of a SNP allele in the RCG by hybridization of the RCG with a SNP-ASO to identify a loss of heterozygosity in the tumor.

- 158. (Previously presented) The method of claim 157, wherein the RCG contains less than 5% of genomic material present in a whole genome.
- 159. (Previously presented) The method of any one of claims 157-158, wherein the at least one PCR primer is a primer for DOP-PCR.
- 160. (Previously presented) The method of any one of claims 157-158, wherein the at least one PCR primer is a primer for adapter-PCR.
- 161. (Withdrawn) An article in one or more containers, comprising

at least one polymerase chain reaction (PCR) primer for preparing a randomly primed PCR-derived reduced complexity genome (RCG), wherein the RCG contains less than 20% of genomic material present in a whole genome, and

PCR primer,

a set of SNP-ASOs immobilized on a surface, wherein polymorphic loci corresponding to the SNP-ASOs are present with a frequency of at least 50% in a RCG made using the at least one

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the article designed for use with a method of any one of claims 149 and 157.

- 162. (Withdrawn) The article of claim 161, wherein the RCG contains less than 5% of genomic material present in a whole genome.
- 163. (Withdrawn) The article of any one of claims 161-162, wherein the at least one PCR primer is a primer for DOP-PCR.
- 164. (Withdrawn) The article of any one of claims 161-162, wherein the at least one PCR primer is a primer for adapter-PCR.
- 165. (Previously presented) A method for simultaneously detecting a plurality of single nucleotide polymorphism (SNP) alleles in a genomic DNA sample which comprises:

preparing a randomly-primed PCR-derived reduced complexity genome (RCG) from the genomic DNA sample;

hybridizing said RCG with an arrayed panel of oligonucleotides indicative of SNP alleles associated with said RCG; and

analyzing the hybridization pattern of said RCG with oligonucleotides to thereby determine the presence or absence of said SNP alleles.

166. (Previously presented) A method for genotyping single nucleotide polymorphism (SNP) alleles in a genomic DNA sample of a subject which comprises:

preparing a randomly-primed PCR-derived reduced complexity genome (RCG) from the genomic DNA sample;

hybridizing said RCG with an arrayed panel of SNP alleles specific for said RCG; and

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analyzing the hybridization pattern of said RCG on said panel to thereby determine a genotype of said subject.

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